5 <u>THE CLAIMS</u>

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Having thus described my invention what I claim as new, useful and nonobvious and, accordingly, secure by Letters Patent of the United States is:

- 1. A retaining wall system, definable with reference to an x, y, z Cartesian coordinate system, for stabilizing an earthen wall, said system comprising:
  - (a) a y-axis footing having an x-axis width, said footing embedded within the earth along a y-z plane at a base of an earthen mass to be retained by said system, said footing having a flat xy upper surface thereof; and
- (b) upon said upper surface of said footing, a retaining wall comprising a multiplicity of courses of constructional blocks, each block thereof defining a generally solid rectangular exterior configuration, an x-axis thereof defining a width axis of said wall, a y-axis thereof defining a segment of a length of said wall, and a z-axis thereof defining a segment of a height of said wall, in which one xz end surface of each block comprises a positive y-axis deep key geometry and each opposing xz end surface thereof comprises a negative y-axis deep key geometry complementally interlockable to a part of a substantially planar xy geo-grid positioned within at least one xy plane between said retaining wall and said earthen mass to be retained, a y-axis edge of said geo-grid rigidly secured between opposing surfaces of y-axis courses of blocks of said retaining wall, in which elements of said grid near to said y-axis edge thereof define x and y axes separations proportioned for complemental interposition between successive z-axis recesses and interlocking blocks of opposing z-axis courses,

whereby securing said y-axis edge of said geo-grid is secured between adjacent z-axis courses of blocks of said retaining wall.

- The system as recited in Claim 1, further comprising:
  mortar placed between opposing xy surfaces of said blocks,
- thereby providing a substantially rigid and load resistant interlock of each geo-grid between vertically contiguous courses of said blocks when joined together as components of said retaining wall system.
  - 3. The system as recited in Claim 2, in which:
- a z-axis length of each of said male members of said lower xy surface of each block exceeds a z-axis depth of contiguous xy surface recesses of a vertically contiguous course to thereby provide space for insertion of said mortar between opposing xy surfaces of blocks of said courses of said retaining wall.
- 20 4. The system as recited in Claim 2, in which:

a y-axis length of said positive y-axis deep key geometry exceeds a y-axis depth of said negative deep key geometry, thereby providing space for the insertion of mortar between opposing xz brick surfaces within a given course of said retaining wall.

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5. The system as recited in Claim 4, in which each of said deep key geometries each comprise a trapezoidal structure.